

Best Available Copy**PATENT ABSTRACTS OF JAPAN**

(11)Publication number : 04-032026
 (43)Date of publication of application : 04.02.1992

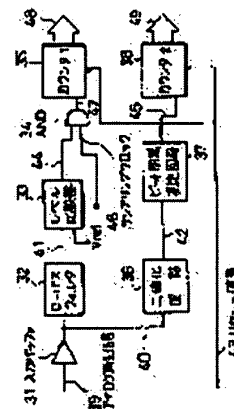
(51)Int. CI. G11B 7/00

(21)Application number : 02-139188 (71)Applicant : OLYMPUS OPTICAL CO LTD
 (22)Date of filing : 29.05.1990 (72)Inventor : OSHIBA MITSUO

(54) DATA RECORDING AND REPRODUCING DEVICE**(57)Abstract:**

PURPOSE: To discriminate the data recording state in a sector by discriminating the recording state of a prescribed part of a recording area based on the period in which the average level of a reproduced signal exceeds a reference value and the frequency with which bit intervals satisfy a prescribed modulation rule.

CONSTITUTION: A first measuring means 34 which measures the period in which the average level of the reproduced signal obtained from a prescribed part of the recording area exceeds a reference value and a second measuring means (bit interval measuring circuit) 37 which uses the reproduced signal to measure the frequency with which bit intervals satisfy the prescribed modulation rule are provided, and the recording state of the prescribed part of the recording area is discriminated based on outputs 48 and 49 of first and second measuring means 34 and 37. It is discriminated whether data is normally recorded, already erased, or not recorded yet in accordance with the sampling result of the average level of data, and it is discriminated whether data in the sector satisfied the prescribed modulation rule or not to discriminate whether data is normally recorded or already erased (or multiwritten), thereby discriminating the recording state of all data in the sector.

**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision
of rejection]
[Kind of final disposal of application
other than the examiner's decision of
rejection or application converted
registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's
decision of rejection]
[Date of requesting appeal against
examiner's decision of rejection]
[Date of extinction of right]

Best Available Copy

Copyright (C); 1998, 2003 Japan Patent Office